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**U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
FOREST PRODUCTS LABORATORY
MADISON, WIS.**

In Cooperation with the University of Wisconsin

LIST OF PUBLICATIONS ON

**MILLING AND UTILIZATION
OF TIMBER PRODUCTS**

This list includes publications that give general information and the results of research by the Forest Products Laboratory on milling and utilization of timber products.

Single copies of the various items may be obtained free upon request from the Director, Forest Products Laboratory, Forest Service, U.S. Department of Agriculture, P.O. Box 5130, Madison, WI 53705. Classroom quantities are not available because of limited printing and storage facilities.

Title	Author	Publication and date
<u>Machining</u>		
Beat the high cost of walnut turning blocks.	: Mitchell, H. L.	: School Shop. Pp. 40, 41. Jan. 1974.
Thick slicing of wood: Effects of wood and knife inclination and angle.	: Peters, C. C., : Mergen, A. F., & : Panzer, H. R.	: Forest Prod. J. 22(9): 84-91. Sept. 1972.
Is wood hardness affected by preservative treatment?	: Ethington, R. L.	: Forest Prod. J. 22(5): 60, 61. May 1972.

Title	Author	Publication and date
Veneer species that grow in the United States.	:Lutz, J. F.	:USDA Forest Serv. Res. :Pap. FPL 167. 1972.
Feasibility of producing a high-yield laminated structural product: Strength properties of rotary knife-cut laminated southern pine.	:Moody, R. C. & :Peters, C. C.	:USDA Forest Serv. Res. :Pap. FPL 178. 1972.
Feasibility of producing a high-yield laminated structural product: Residual heat of drying accelerates adhesive cure.	:Jokerst, R. W.	:USDA Forest Serv. Res. :Pap. FPL 179. 1972.
Slitting sawblades cuts noise.	:Malcolm, F. B.	:Wood & Wood Prod. 76(3): :46, 47. Mar. 1971.
Wood and log characteristics affecting veneer production.	:Lutz, J. F.	:USDA Forest Serv. Res. :Pap. FPL 150. 1971.
Measuring wood surface smoothness--A review.	:Peters, C. C. & :Cumming, J. D.	:Forest Prod. J. 20(12): :40-43. Dec. 1970.
Control of veneer thickness during rotary cutting.	:Lutz, J. F., :Mergen, A. F., & :Panzer, H. R.	:Forest Prod. J. 19(12): :21-28. Dec. 1969.
Effect of cutting speed during thick slicing of wood.	:Peters, C. C., :Mergen, A. F., & :Panzer, H. R.	:Forest Prod. J. 19(11): :37-42. Nov. 1969.
Slicing wood one-inch thick; four types of pressure bars.	:Peters, C. C., :Mergen, A. F., & :Panzer, H. R.	:Forest Prod. J. 19(7): :47-52. July 1969.
Surfacing softwood dimension lumber to produce good surfaces and high-value flakes.	:Lutz, J. F., :Heebink, B. G., & :Panzer, H. R., & :Mergen, A. F.	:Forest Prod. J. 19(2): :45-51. Feb. 1969.
Multiple-flitch method for thick slicing.	:Peters, C. C.	:Forest Prod. J. 18(9): :82, 83. Sept. 1968.

Title	Author	Publication and date
Effects of roller-bar compression and restraint in slicing wood 1-inch thick.	:Peters, C. C., :Zenk, R. R., & :Mergen, A. F.	:Forest Prod. J. 18(1): :75-80. Jan. 1968.
Effect of precompression on sliced wood 1/2 and 1 inch in thickness.	:Peters, C. C. & :Zenk, R. R.	:USDA Forest Serv. Res. :Note FPL-0194. 1968.
Woodworking machines.	:Forest Products :Laboratory	:U.S. Forest Serv. Res. :Note FPL-048. 1964.
Machining and related characteristics of United States hardwoods.	:Davis, E. M.	:USDA Tech. Bull. 1267. :Aug. 1962. Available :from the Supt. of Doc., :GPO, Washington, D.C. :20402.
<u>Milling</u>		
Dimension stock yields from lumber of three hardwood species.	:Schumann, D. R.	:Forest Prod. J. 23(3): :17-21. Mar. 1973.
Ultrasonic location of defects in softwood lumber.	:McDonald, K. A.	:Timber Trades J. :s/17-s/19. Jan. 1973.
Predicting dimension parts cost.	:Schumann, D. R.	:Woodworking & Furn. Dig. :74(7): 26-28. July 1972.
Effects of three sawing methods on warp of hard maple dimension cuttings.	:Malcolm, F. B. & :Hallock, H.	:Forest Prod. J. 22(4): :57-60. Apr. 1972.
Western wood density survey--Report No. 2.	:Maeglin, R. R. & :Wahlgren, H. E.	:USDA Forest Serv. Res. :Pap. FPL 183. 1972.
Circular sawmills and their efficient operation.	:Lunstrum, S. J.	:USDA Forest Serv.--S&PF. :Unnumbered Publ. 1972.
Sawing to reduce warp in plantation red pine studs.	:Hallock, H. & :Malcolm, F. B.	:USDA Forest Serv. Res. :Pap. FPL 164. 1972.
Symmetrically placed expansion slots solve problem of 'screaming' saws.	:Malcolm, F. B.	:Forest Ind. 98(6): :76, 77. June 1971.

Title	Author	Publication and date
Locating maximum stresses in tooth assemblies of inserted-tooth saws.	:Malcolm, F. B. & :Koster, A. L. : :	:Forest Prod. J. 20(10): :34-38. Oct. 1970. : :
Tomorrow: Computer-made sawing decisions?	:Hallock, H. & :Bulgrin, E. H. :	:Forest Prod. J. 20(9): :52-56. Sept. 1970. :
Improved technique for determining the volume of irregularly shaped wood blocks.	:Heinrichs, F. J. & :Lassen, L. E. :	:Forest Prod. J. :20(4): 24. Apr. 1970. :
Computer predicts maple yields to within 1-1/2 percent.	:Dunmire, D. & :Englerth, G. :	:Furn. Des. & Manuf. 42(1): :30-32. Jan. 1970. :
Slicing wood one-inch thick: Four types of pressure bars.	:Peters, C. C., :Mergen, A. F., & :Panzer, H. R. :	:Forest Prod. J. 19(7): :47-52. July 1969. :
How to predict maximum lumber yields.	:Schumann, D. R. & :Huber, H. A. :	:Furn. Des. & Manuf. 41(5): :54-62. May 1969. :
Sawing to reduce warp of lodgepole pine studs.	:Hallock, H. : :	:USDA Forest Serv. Res. :Pap. FPL 102. 1969. :
Tests give film barriers the air.	:Mohaupt, A. A. : :	:Packag. Eng. :Dec. 1968. :
Surface densification of wood.	:Tarkow, H. & :Seborg, R. :	:Forest Prod. J. 18(9): :104-107. Sept. 1968. :
Multiple-flitch method for thick slicing.	:Peters, C. C. : :	:Forest Prod. J. 18(9): :82, 83. Sept. 1968. :
Sacrificing short butt log to chips may reduce lodgepole stud warping.	:Malcolm, F. B. : :	:Forest Ind. 95(5): :88, 89. May 1968. :
Warp in studs from small-diameter loblolly pine.	:Malcolm, F. B. : :	:So. Lbrmn. 216(2687): :27-30. Apr. 1968. :
The "taper-tension" saw--A new reduced kerf saw.	:Hallock, H. : :	:USDA Forest Serv. Res. :Note FPL-0185. 1968. :
Coarse feed sawing of red oak--A limited study.	:Malcolm, F. B. : :	:U.S. Forest Serv. Res. :Note FPL-0155. 1967. :

Title	Author	Publication and date
Better quality studs by FPL improved sawing method.	:Hallock, H.	:So. Lbrmn. 212(2638): :17-19. Apr. 1966.
Kerf width and lumber yield.	:Hallock, H.	:Forest Prod. J. 14(2): :80-85. Feb. 1964.

Grades, Specifications, and Standardization

Ultrasonic location of defects in softwood lumber.	:McDonald K. A.	:Timber Trades J. :s/17-s/19. Jan. 1973.
Predicting dimension parts cost.	:Schumann, D. R.	:Woodworking & Furn. Dig. :74(7): 26-28. July 1972.
Measuring wood surface smoothness: A proposed method.	:Peters, C. C. & :Mergen, A. F.	:Forest Prod. J. 21(7): :28-30. July 1971.
Separation of wood and bark by gyratory screening.	:Harkin, J. M. & :Crawford, D. M.	:Forest Prod. J. 22(5): :25-30. May 1972.
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Feasibility of producing a high-yield laminated structural product.	:Schaffer, E. L., :Jokerst, R. W., :Moody, R. C., :Peters, C. C., :Tschernitz, J. L., & :Zahn, J. J.	:USDA Forest Serv. Res. :Pap. FPL 175. 1972.
Evaluating adhesives for building construction.	:Gillespie, R. H. & :Lewis, W. C.	:USDA Forest Serv. Res. :Pap. FPL 172. 1972.
Theoretical lateral resistance of nailed joints.	:Wilkinson, T. L.	:J. Struc. Div., Proc. :ASCE 97(ST5), Pap. 8121: :1381-1398. May 1971.
Simulated service testing of wood and wood-base finish flooring.	:Lewis, W. C.	:USDA Forest Serv. Res. :Note FPL-0215. 1971.
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Measuring wood surface smoothness: A review.	:Peters, C. C. & :Cumming, J. D.	:Forest Prod. J. 20(12): :40-43. Dec. 1970.
Properties of imported tropical woods.	:Kukachka, B. F.	:USDA Forest Serv. Res. :Pap. FPL 125. Mar. 1970.
Computer predicts maple yields to within 1-1/2 percent.	:Dunmire, D. E. & :Englerth, G. H.	:Furn. Des. & Manuf. 42(1): :30-32. Jan. 1970.
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Programming for lumber yield.	:Englerth, G. H. & :Dunmire, D. E.	:Forest Prod. J. 16(9): :67-69. Sept. 1966.
Growth stresses and lumber warp in loblolly pine.	:Hallock, H.	:Forest Prod. J. 16(2): :48-52. Feb. 1966.
Dimensional stabilization of hardboard by acetylation.	:Klinga, L. O. & :Tarkow, H.	:Tappi 49(1): 23-27. :Jan. 1966.
Hardwood log grades for standard lumber.	:Vaughn, C. L., :Wollin, A. C., :McDonald, K. A., & :Bulgrin, E. H.	:U.S. Forest Serv. Res. :Pap. FPL 63. 1966.
Veneer yields from Lake States quaking aspen.	:Bulgrin, E. H., :McDonald, K. A., & :Vaughan, C. L.	:U.S. Forest Serv. Res. :Pap. FPL 59. 1966.
A simplified procedure for developing grade lumber from hardwood logs.	:Malcolm, F. B.	:U.S. Forest Serv. Res. :Note FPL-098. 1965.

Title	Author	Publication and date
<u>Utilization</u>		
Volume of wood, bark, and needles after clearcutting a lodgepole pine stand.	:Foulger, A. N. & :Harris, J.	:J. Forest. 71(2): 93-95. :Feb. 1973.
FPL press-lam process: Fast, efficient, conversion of logs into structural products.	: : :	: : :
Wood structures can resist hurricanes.	:Sherwood, G. E.	:Forest Prod. J. 21(11): :11-18. Nov. 1972.
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A computerized wood engineering system: Purdue plane structures analyzer.	: : :	: : :
Condition of preservative-treated cooling tower slats after 10-year service.	:Anderson, L. O.	:ASCE 8779(ST3): 729- :740. Mar. 1972.
Appalachian hardwoods for pallets: Correlation between service and laboratory testing.	:Suddarth, S. K.	:USDA Agr. Inf. Bull. :311. 1972. Available :from the Supt. of Doc., :GPO, Washington, D.C. :20402.
Condensation problems: Their prevention and solution.	: : :	: : :
Evaluation of adhesive-bond quality in telephone crossarms after 16 to 23 years of exterior exposure.	:Gjovik, L. R., :Bendsten, B. A., & :Roth, H. G.	:USDA Forest Serv. Res. :Pap. FPL 168. 1972.
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	:Stern, R. K. & :Dunmire, D. E.	:Forest Prod. J. 22(4): :35-40. 1972.
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	:	:Northwest Forest & Range
	:	:Exp. Sta., Portland, Oreg.
	:	:1971.
	:	:
Problems associated with the development of use of wood in construction and possible solutions. Part 1. Technical aspects.	:Liska, J. A.	:Presented at the World
	:	:Consultation on the Use
	:	:of Wood in Housing,
	:	:Vancouver, B.C., 1971.
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Wood products and their use in construction.	:Freas, A. D.	:Presented at the World
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	:	:Nos. 101-102-103: 53-68.
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	:Laboratory	:Note FPL-0213. 1971.
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Proposed low-cost window unit.	:Heebink, B. G.	:USDA Forest Serv. Res.
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Rapid production of pallet deck-boards from low-grade logs.	:Hann, R. W.,	:USDA Forest Serv. Res.
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Uses for sawdust, shavings, and chips.	:Forest Products :Laboratory	:USDA Forest Serv. Res. :Note FPL-0208. 1969.
A literature survey of <u>Populus</u> species with emphasis on <u>P. tremuloides</u> .	:Pronin, D. & :Vaughan, C. L.	:USDA Forest Serv. Res. :Note FPL-0180. 1968.
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Uses for slabs, edgings, and trims.	:Forest Products :Laboratory	:U.S. Forest Serv. Res. :Note FPL-038. 1964.
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AMERICAN WOODS Series: Common and scientific, distribution and growth, production, products, properties, uses and references for species and species groups following:

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Aspen	Elm	lodgepole
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Balsam fir	noble	red
Basswood	white	southern
Birch	Hackberry	sugar
Black cherry	Hemlock, eastern	western white
Buckeye	western	Redwood
Butternut	Hickory	Sitka spruce
Cedar, Alaska	Holly, American	Spruce, Englemann
Atlantic white	Locust, black	Sycamore, American
eastern red	Magnolia	Sweetgum
incense	Maple	Tamarack
northern white	Oaks, eastern	Tupelo
Port-Orford-	Osage-orange	Walnut, black
western	Pecan	Western larch
Chestnut	Persimmon, common	Willow, black
		Yellow-poplar

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<u>Miscellaneous</u>		
Sawing frozen timber with circular headrigs.	:Lunstrum, S. J.	:U.S. Forest Serv. Tech. Rep. No. 4. Dec. 1972.
How PEG helps the hobbyist who works with wood.	:Mitchell, H. L.	:FPL Rep. 1972. :Unnumbered Publ.
The wood resource and the environment--Some national options and alternatives.	:Saeman, J. F.	:FPL Rep. 1972. :Unnumbered Publ.
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